

CALUMMA™ CATENARY M SC

Featuring an optical design using 37 high efficacy single-chip LEDs and available with optional LED colour variants and various beam angles, the medium-sized Calumma Catenary M SC luminaire creates powerful and beautiful light output for a spot or flood lighting solution. Its durable housing is built to withstand any exterior conditions, and its special finish for harsh and marine environments provides an exceptional outdoor LED luminaire in an elegant design.



KEY FEATURES

Lumen output & Light source
Luminaire with 37 high-power, singlechip LEDs provides up to 3478 lumen output. Multiple LED colour variants. No light spills. Well homogenised light output with great efficacy up to 57 lm/w.

Design & Durability
Compact, durable and stylish housing made of high-pressure die cast aluminium. IP67 and IK10 certification; suitable for marine applications (Harsh Environment Finish required) and traffic applications. Supported with a 5 year warranty.

Flexibility
Exceptional outdoor or indoor LED luminaire with a custom colour finishes, multiple light output variants and beam angles.

Connectivity
Utilising the innovative E-Box series of power and data interfaces, Calumma Catenary M SC can communicate via numerous control protocols.

COLOURS

STANDARD

 RGBW (6500 K)	 RGBA	 PW (3000 K)	 TW (2200-3000 K)
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UPON REQUEST

AVAILABLE COLOURS
FOR CUSTOM SETUP

 RED	 GREEN	 BLUE	 AMBER
 2.200 K	 2.700 K	 3.000 K	 4.000 K
 6.500 K			

OPTIC OPTIONS

SYMMETRICAL

 10°	 15°	 25°	 30°
 45°	 65°	 100°	

BI-SYMMETRICAL

 10°x30°	 10°x60°	 15°x45°	 15°x90°
 30°x60°	 30°x90°	 30°x10°	 60°x10°
 45°x15°	 90°x15°	 60°x30°	 90°x30°

STANDARD & SPECIFICATION

 IP67	 IK10	 CE	 ETL
 ROHS	 UKCA	 5 YEAR	 Vibration Standard for Bridge

CONTROL & PROTOCOLS

 DMX RDM OPTIONAL	 WIRELESS DMX OPTIONAL	 VIA E-BOX OPTIONAL	 DALI OPTIONAL
 ON OFF PW & SINGLE COLOR ONLY			

FINISH OPTIONS

* CLOSEST RAL TONE
* HE = Harsh Environment

 Graphite Black RAL 9011*	 Grey Aluminium RAL 9007	 Sandstone RAL 1014*	 Pure White RAL 9010
 HE Graphite Black RAL 9011*	 HE Grey Aluminium RAL 9007	 HE Sandstone RAL 1014*	 HE Pure White RAL 9010
 RAL Custom Paint Colour			

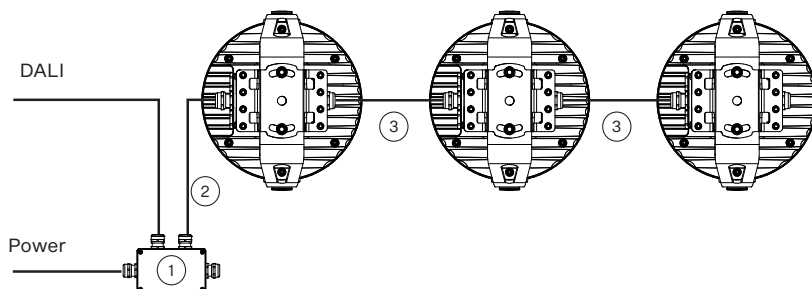
SPECIFICATION

ELECTRICAL	Input Voltage	120–277 V AC 50/60 Hz (US)	
	Typical Power Consumption	60 W +/-10 %	
OPTICAL	Light Source	37x High Power Single Chip LEDs	
	Colour Variants	RGBW (W - 6500 K) RGBA Pure White (W - 3000 K) Tuneable White (2200–3000 K)	
		Custom Setup On Request: Red, Green, Blue, Amber, 2200 K, 2700 K, 3000 K, 4000 K, 6500 K	
	Beam Angle	10° 15° 25° 30° 45° 65° 100°	
		10°x30° 30°x10° 10°x60° 60°x10° 15°x45° 45°x 15° 15°x90° 90°x15° 30°x60° 60°x30° 30°x90° 90°x30°	
	Lumen Output Delivered	3478 lm (@10° RGBW)	
Projected Lumen Maintenance	L90B10 >90.000 hrs, Ta = 25°C / 77°F		
CONTROL	Interface Protocol	Via E-box range, DMX/RDM, DALI 2	
	E-box control protocol	USITT DMX512+RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net	
	DALI 2 Device Type	DT 8	
	Control System	Third Party DMX Controllers or third party DALI 2 controllers, Ethernet	
	Operating Modes	DMX, Stand-alone	
	Settings / Addressing	E-Box, RDM communicator	
	Power Supply	Integrated	
PHYSICAL	Width x Height x Depth Weight	264 x 238 x 236 mm (10.4 x 9.37 x 9.3 in.) 7.4 kg (16.31 lbs)	
	Housing	High Pressure Die-Cast Aluminium Body Tempered Glass	
	Finish Options	Standard Colour	Graphite Black RAL 9011 Grey Aluminium RAL 9007 Pure White RAL 9010 Sandstone RAL 1014
		Standard Colour Harsh Environment	Graphite Black RAL 9011 Grey Aluminium RAL 9007 Pure White RAL 9010 Sandstone RAL 1014
		Cost Option	Custom RAL
	Cables / Connections	Integrated Junction Box	
	Mounting Method	Catenary Mounting / Mounting Brackets	
	Adjustability	+180° / -180°	
	Protection Factor	IP67 / Suitable For Wet Locations	
	IK Rating	IK10	
	Cooling System	Convection	
	Operating Ambient Temperature	-20°C / +50°C (-4°F / +122°F)	
CERTIFICATION	Listings	ETL / cETL, CE, RoHS, UKCA	
ACCESSORIES	Not Included Items		
		Junction Box CE or US	
		Optical Demo Set for Calumma M (for demo purposes)	
		Outdoor Foil Holder for Calumma M „OFH“ version only (for permanent installation)	
		Optical Foil Set for Outdoor Foil Holder Calumma M	
		Cable Hybrid 3x16 AWG + 1x(2x24 AWG), CE, black - for DMX or E-Box versions	
		Cable HYB-5731ZH LSZH (CE), white - for DMX or E-Box versions	
		Cable SJTW 6x14 AWG (US), black - for E-Box versions	
		Cable SJTW 6x14 AWG (US), white - for E-Box versions	
		Re-enterable Electrical Insulating Resin	

CONTROL AND CONNECTION OPTIONS - CE

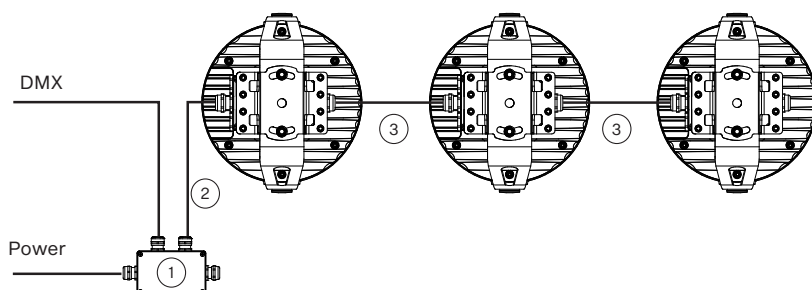
DALI

- 1) Junction Box
- 2) Hybrid Cable (13053693) Standard 1 m with bare-end, black or on request Hybrid cable (13053697), 1 m with bare-end, white
- 3) Hybrid Cable (13053693) Standard 1 m with bare-end, black or on request Hybrid cable (13053697), 1 m with bare-end, white or Scope of Others



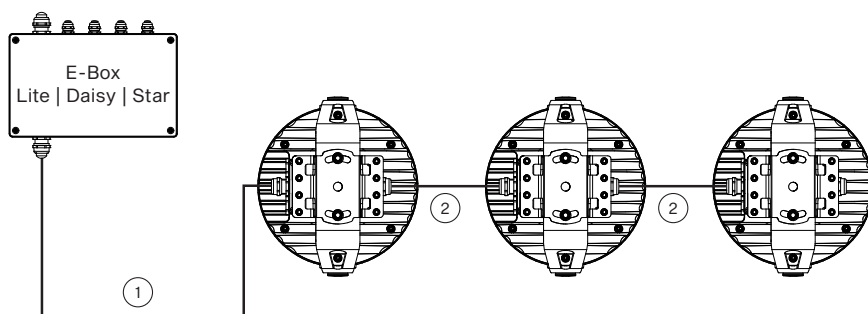
DMX

- 1) Junction Box
- 2) Flamar 3x16 AWG + 1x(2x24 AWG), Standard 1 m with bare-end, (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white
- 3) Flamar 3x16 AWG + 1x(2x24 AWG), (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white or Scope of Others



DMX or ETHERNET via E-BOX

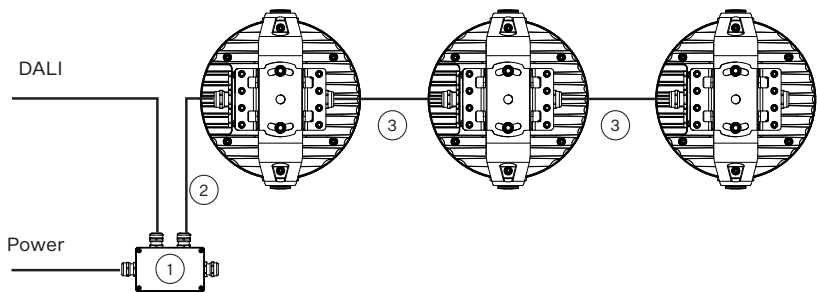
- 1) Flamar 3x16 AWG + 1x(2x24 AWG) Standard 1 m with bare-end, (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white
- 2) Flamar 3x16 AWG + 1x(2x24 AWG), (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white or Scope of Others



CONTROL AND CONNECTION OPTIONS - US

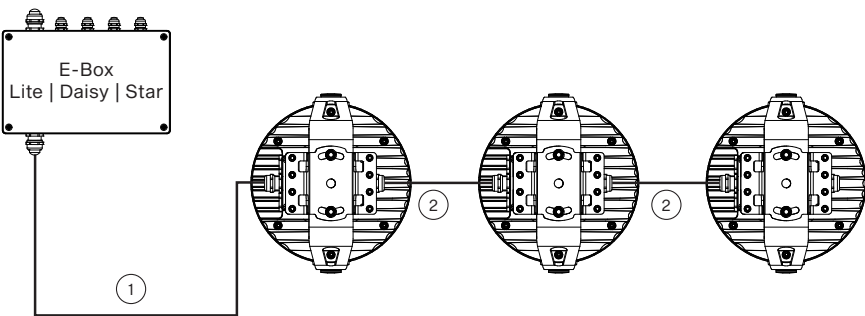
DALI

- 1) Junction Box
- 2) SJTW 5x14 AWG (13053693), Standard 1 m with bare-end, black or Cable SJTW 5x14 AWG (13053697), white
- 3) SJTW 5x14 AWG (13053693), black or Cable SJTW 5x14 AWG (13053697), white or Scope of Others



DMX or ETHERNET via E-BOX

- 1) SJTW 6x14 AWG (13053480), black or Cable SJTW 6x14 AWG (13053695), white or Scope of Others
- 2) SJTW 6x14 AWG (13053480), bare-end, black or Cable SJTW 6x14 AWG (13053695), white



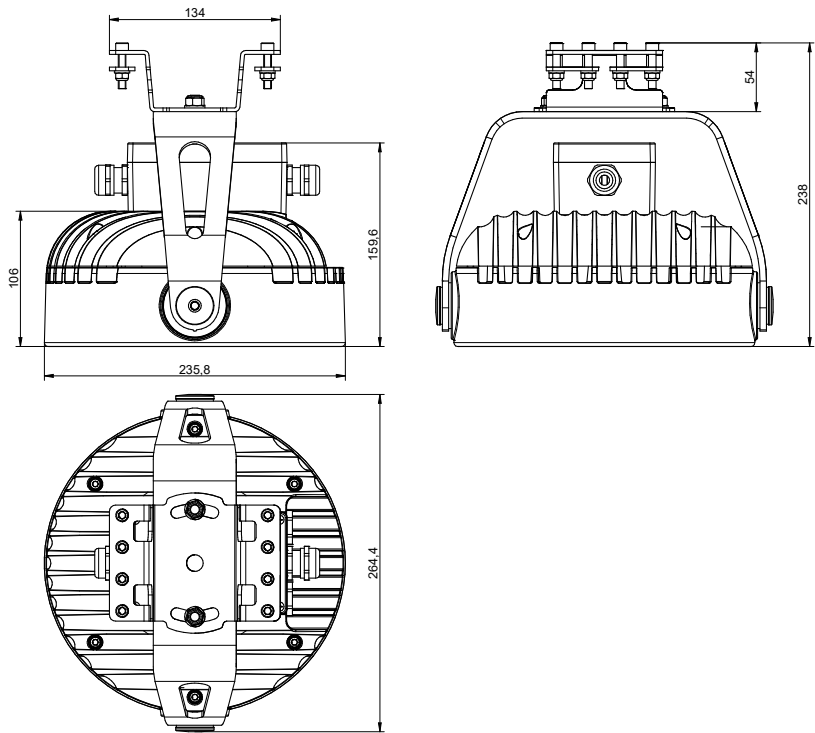
CONNECTIVITY

Following table shows maximum connected Calummas M SC in a row with respect of cable length.

STANDARD MODE		Cable length (m)	Voltage (V)			
			120	190	230	277
CALUMMA M SC	10	30	48	58	70	
	20	30	48	58	70	
	30	21	48	58	70	
	50	13	32	47	68	
	70	9	23	34	49	
	100	6	16	24	34	
	200	3	8	12	17	
	500	1	3	5	7	

PASS-THROUGH MODE		Cable length (m)	Voltage (V)			
			120	190	230	277
CALUMMA M SC	10	30	32	32	32	
	20	30	32	32	32	
	30	21	32	32	32	
	50	13	32	32	32	
	70	9	23	32	32	
	100	6	16	24	32	
	500	1	3	5	7	

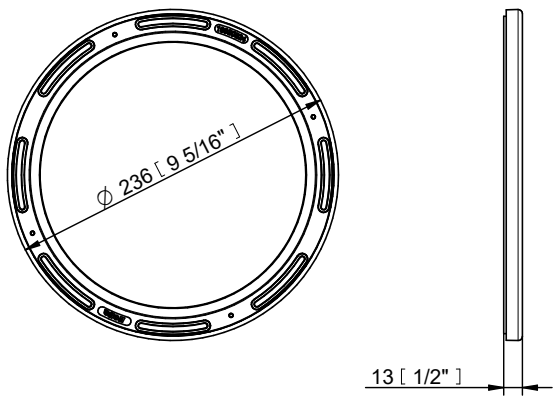
DIMENSIONS



ACCESSORIES

Outdoor Foil Holder for Calumma M

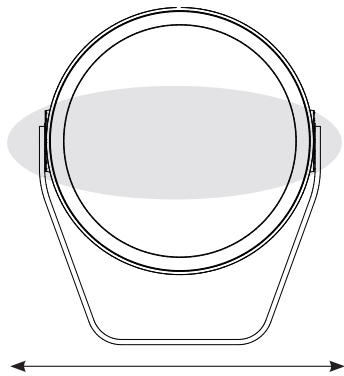
Outdoor Foil Holder for Calumma M „OFH“ version only (for permanent installation). **Example of ordering code:** Calumma M SC CE RGBCW 10° RAL9007 OFH



BI-SYMMETRICAL BEAM ANGLES

Bi-symmetrical:
10°x30°,
10°x60°,
15°x45°,
15°x90°,
30°x60°,
30°x90°

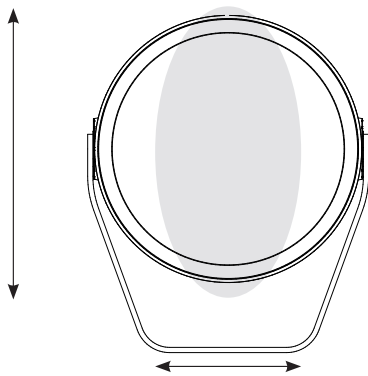
10°, 15°, 30°



30°, 45°, 60°, 90°

Bi-symmetrical:
30°x10°,
60°x10°,
45°x15°,
90°x15°,
60°x30°,
90°x30°

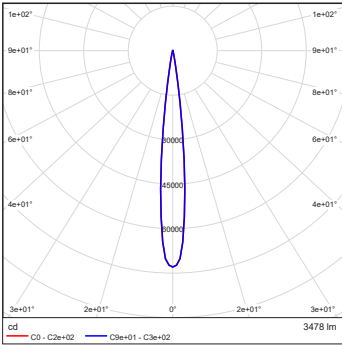
30°, 45°, 60°, 90°



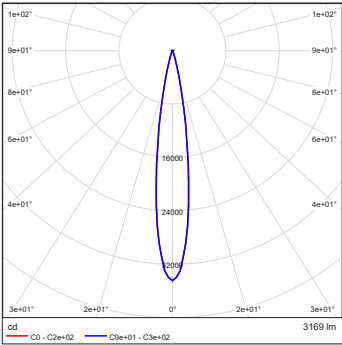
10°, 15°, 30°

PHOTOMETRIC DATA

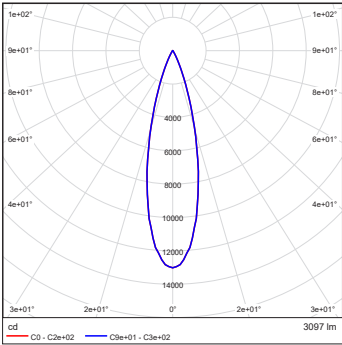
Calumma M SC RGBW 6500K 10dg



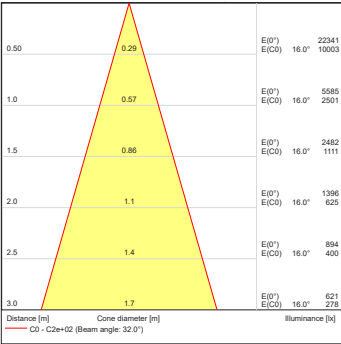
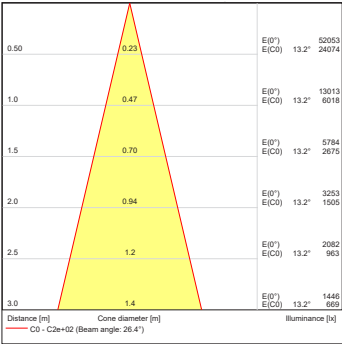
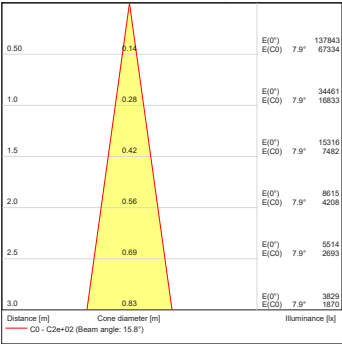
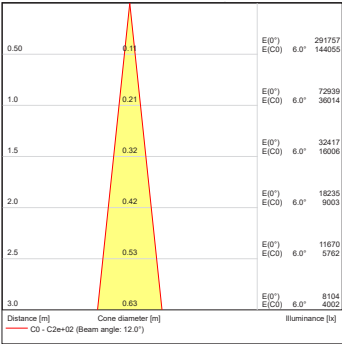
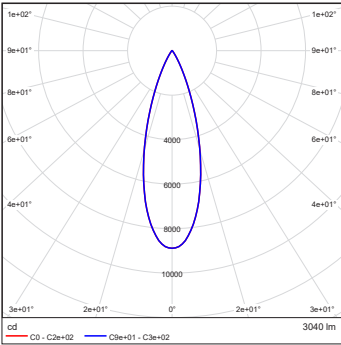
Calumma M SC RGBW 6500K 15dg



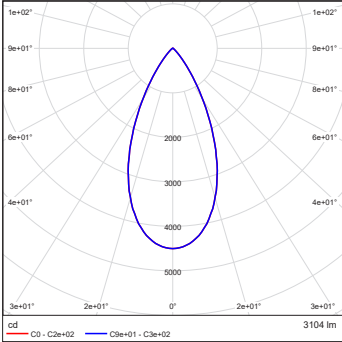
Calumma M SC RGBW 6500K 25dg



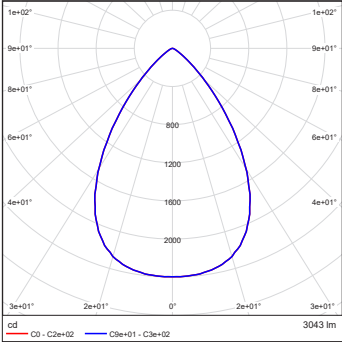
Calumma M SC RGBW 6500K 30dg



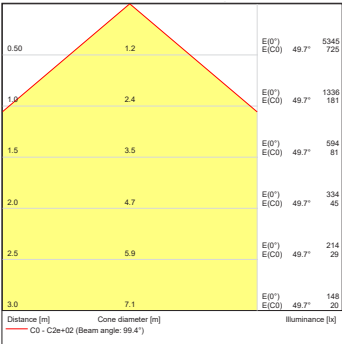
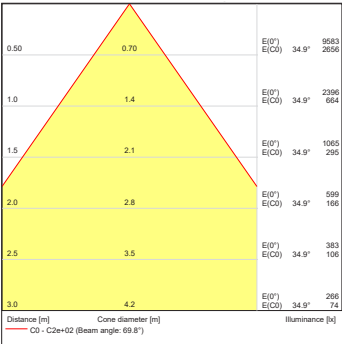
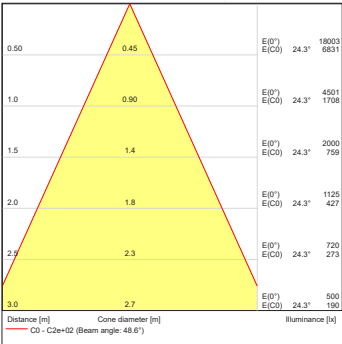
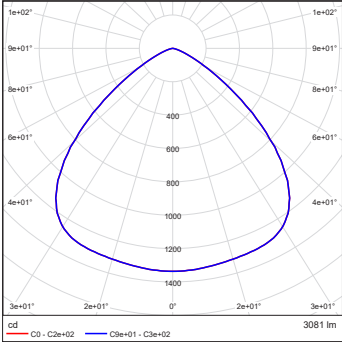
Calumma M SC RGBW 6500K 45dg



Calumma M SC RGBW 6500K 65dg

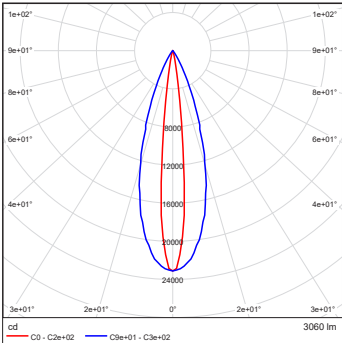


Calumma M SC RGBW 6500K 100dg

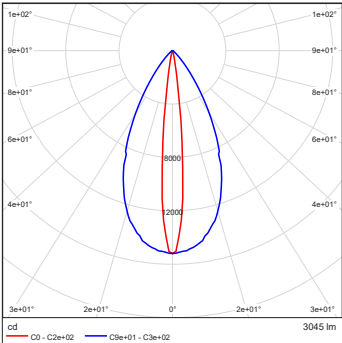


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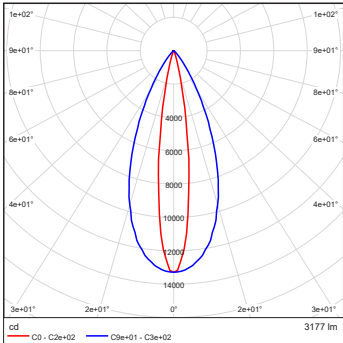
Calumma M SC RGBW 6500K
10x30dg



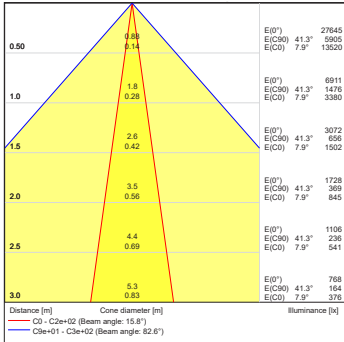
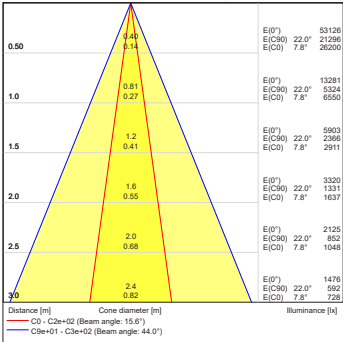
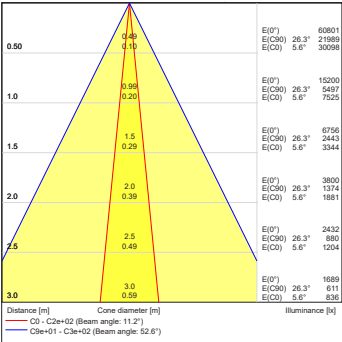
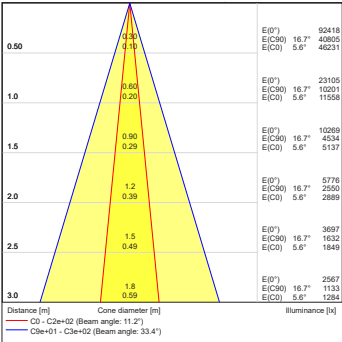
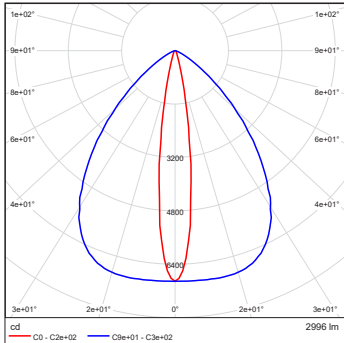
Calumma M SC RGBW 6500K
10x60dg



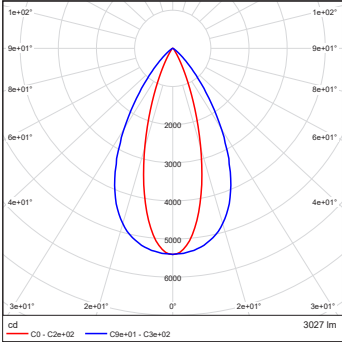
Calumma M SC RGBW 6500K
15x45dg



Calumma M SC RGBW 6500K
15x90dg



Calumma M SC RGBW 6500K
30x60dg



Calumma M SC RGBW 6500K
30x90dg

